

HELLBERG, R.
Appl. No. 10/501,392
February 28, 2006

REMARKS

Reconsideration and allowance of the subject application are respectfully requested.

Claims 7, 8, 23, and 24 stand rejected under 35 U.S.C. §112, second paragraph as being indefinite. Claims 7 and 23 have been amended so that they no longer refer to a "Chireix type composite amplifier." Instead, an outphasing amplifier apparatus is recited. An example, non-limiting example of an outphasing amplifier is described in the attached IEEE article by Zhang et al. Withdrawal of the rejection is therefore requested.

Applicant notes with appreciation Examiner's allowance of claims 1-6 and 10-22.

Claims 7, 9, and 23 stand rejected under 35 U.S.C. §102(b) as being anticipated by Boesch et al. Claims 8 and 24 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Boesch et al. in view Dent et al. Claim 9 is canceled without prejudice. The remaining rejections are respectfully traversed.

The Boesch patent describes a dual-band, dual-mode power amplifier. Boesch fails to disclose or suggest an outphasing amplifier apparatus. In contrast to Boesch's amplifier, an outphasing amplifier takes an envelope modulated bandpass waveform and resolves it into two outphased constant envelope signals. Those two outphased constant envelope signals are amplified separately with two efficient non-linear power amplifiers and then summed. An outphasing amplifier apparatus allows the power amplifiers to continuously operate at their peak power efficiency while also providing a substantially linear final output. Accordingly, the rejections based on Boesch should be withdrawn.

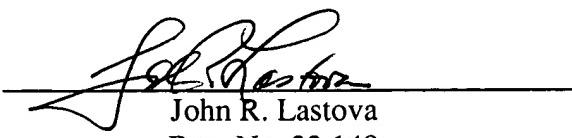
The application is in condition for allowance. An early notice to that effect is earnestly solicited.

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Respectfully submitted,

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